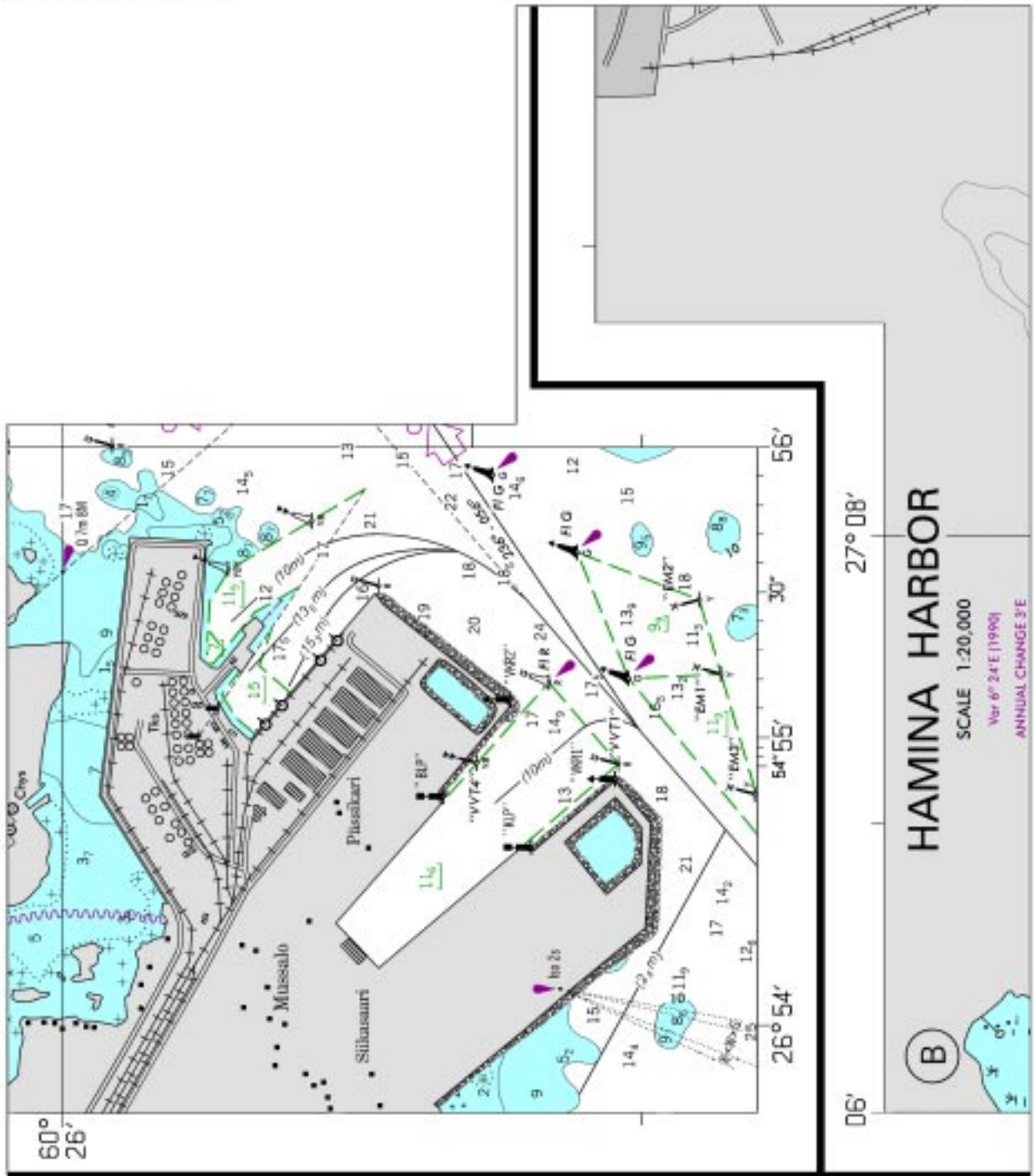


Chart 44367 (Plans A and B)

(A)

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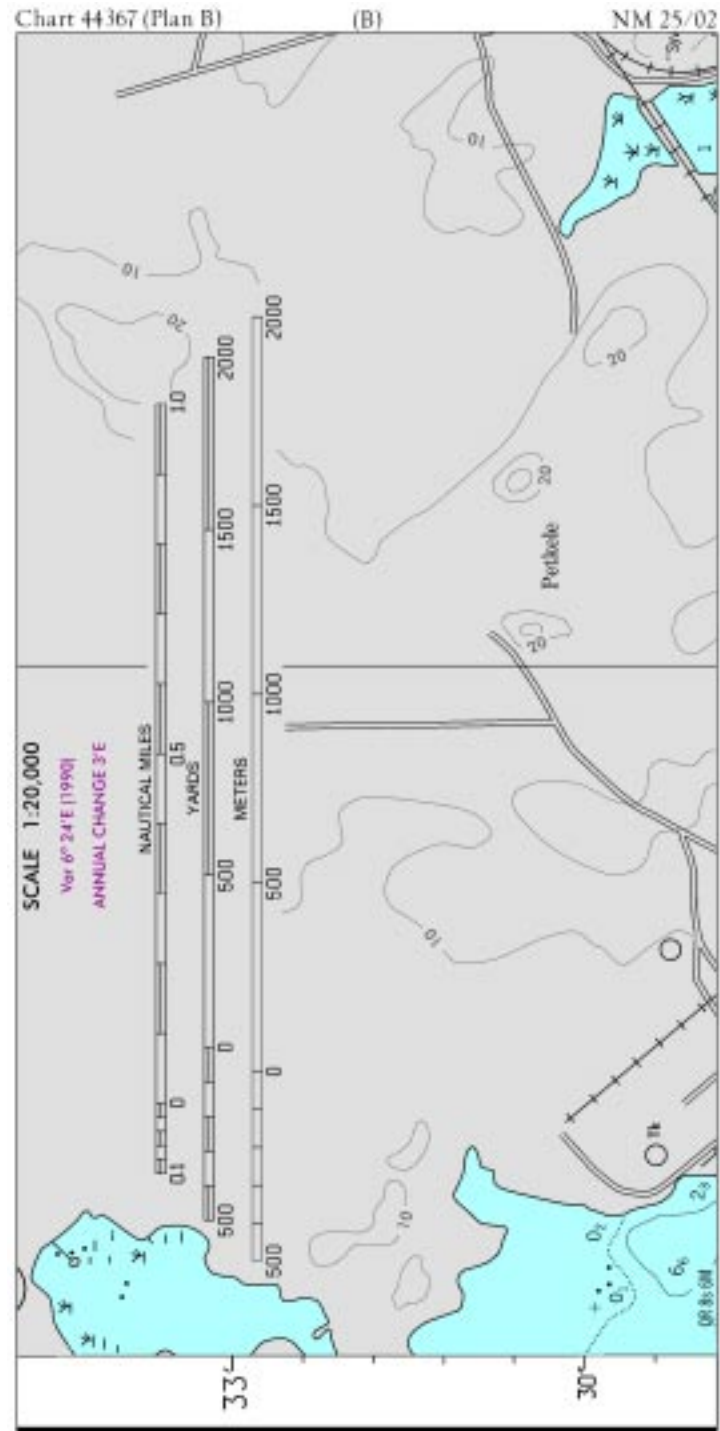


Chart 11353

NM 25/02

MISSISSIPPI RIVER - GULF OUTLET CHANNEL					
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002					
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	WIDTH (FEET)	DATE OF SURVEY
LT. BUOY 1 (29°25'27"N, 88°59'31"W) TO LT. BUOY 20 THENCE TO END OF JETTY OPPOSITE LIGHT 62	31.0	38.0	26.0	600	4-02
	34.0	37.0	31.0	500	4-02
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE					

Chart 11363

NM 25/02

MISSISSIPPI RIVER - GULF OUTLET CHANNEL					
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002					
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	WIDTH (FEET)	DATE OF SURVEY
LT. BUOY 1 (29°25'27"N, 88°59'31"W) TO LT. BUOY 20 THENCE TO END OF JETTY OPPOSITE LIGHT 62 THENCE TO INTERSECTION WITH G. I. W. W. THENCE TO INNER HARBOR NAVIGATION CANAL	31.0	38.0	26.0	600	4-02
	34.0	37.0	31.0	500	4-02
	24.0	31.0	21.0	500	3,4-02
	25.0	28.0	28.0	500	4-02
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE					

Chart 11364

NM 25/02

MISSISSIPPI RIVER - GULF OUTLET CHANNEL					
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002					
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	WIDTH (FEET)	DATE OF SURVEY
LT. BUOY 1 (29°25'27"N, 88°59'31"W) TO LT. BUOY 20 THENCE TO END OF JETTY OPPOSITE LIGHT 62 THENCE TO INTERSECTION WITH G. I. W. W. THENCE TO INNER HARBOR NAVIGATION CANAL	31.0	38.0	26.0	600	4-02
	34.0	37.0	31.0	500	4-02
	24.0	31.0	21.0	500	3,4-02
	25.0	28.0	28.0	500	4-02
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE					

Chart 11364

TIDAL INFORMATION

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Place		Height referred to datum of soundings (MLLW)			
Name	(LAT/LONG)	Mean High Water	Mean High Water	Mean Low Water	Extreme Low Water
		feet	feet	feet	feet
Shell Beach, Lake Borgne	(29°52'N/89°41'W)	1.3	----	----	-2.0
Gardner Island, Breton Sd.	(29°41'N/89°23'W)	1.5	----	----	-2.5

(501)

Chart 11369

NM 25/02

MISSISSIPPI RIVER - GULF OUTLET CHANNEL					
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002					
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	WIDTH (FEET)	DATE OF SURVEY
LT. BUOY 1 (29°25'27"N, 88°59'31"W)					
TO LT. BUOY 20	31.0	38.0	26.0	600	4-02
THENCE TO END OF JETTY					
OPPOSITE LIGHT 62	34.0	37.0	31.0	500	4-02
THENCE TO INTERSECTION WITH G. I. W. W.	24.0	31.0	21.0	500	3,4-02
THENCE TO INNER HARBOR NAVIGATION CANAL	25.0	28.0	28.0	500	4-02
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE					

Chart 11373

NM 25/02

HORN ISLAND PASS PASCAGOULA HARBOR AND BAYOU CASOTTE CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002 AND SURVEYS TO JAN 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HORN ISLAND PASS CHANNEL	40.7	40.3	33.2	8-00	450	4.4	40
PASCAGOULA CHANNEL	32.3	34.2	35.7	11-01	350	10.8	38
TURNING BASIN	36.2	38.0	38.0	1-02	950	0.4	38
BAYOU CASOTTE CHANNEL	38.0	38.7	39.0	1-02	225	3.3	42
TURNING BASIN	42.0	42.0	42.0	1-02	1000	0.3	42
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 11374 (Side B)

NM 25/02

HORN ISLAND PASS PASCAGOULA HARBOR AND BAYOU CASOTTE CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002 AND SURVEYS TO JAN 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HORN ISLAND PASS CHANNEL	40.7	40.3	33.2	8-00	450	4.4	40
PASCAGOULA CHANNEL	32.3	34.2	35.7	11-01	350	10.8	38
TURNING BASIN	36.2	38.0	38.0	1-02	950	0.4	38
BAYOU CASOTTE CHANNEL	38.0	38.7	39.0	1-02	225	3.3	38
TURNING BASIN	42.0	42.0	42.0	1-02	1000	0.3	38
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

SECTION I

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Chart 11375

NM 25/02

HORN ISLAND PASS PASCAGOULA HARBOR AND BAYOU CASOTTE CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002 AND SURVEYS TO JAN 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HORN ISLAND PASS CHANNEL	40.7	40.3	33.2	8-00	450	4.4	40.0
PASCAGOULA CHANNEL	32.3	34.2	35.7	11-01	350	10.8	38.0
TURNING BASIN	36.2	38.0	38.0	1-02	950	0.4	38.0
BAYOU CASOTTE CHANNEL	38.0	38.7	39.0	1-02	225	3.3	38.0
TURNING BASIN	42.0	42.0	42.0	1-02	1000	0.3	38.0
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 11376

NM 25/02

MOBILE BAY AND RIVER CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL	41.8	47.0	45.0	3-02	600	7.0	47
MOBILE BAY:							
LOWER REACH (TO LIGHT 50)	40.9	44.8	42.8	2-02	400	11.8	45
UPPER REACH	32.4	40.0	36.9	2-02	400	13.4	40-45
MOBILE RIVER:							
PINTO ISLAND REACH	34.6	37.7	35.1	3-02	700-800	0.6	40
MOBILE CHANNEL	35.9	40.0	36.4	4-02	600	1.5	40
MOBILE TURNING BASIN	39.9	39.1	39.8	3-02	200-675	0.4	40
BLAKELEY ISLAND REACH	38.3	38.0	31.9	3-02	500	1.0	40
ST. LOUIS POINT REACH	18.9	25.4	22.3	6-00	500	0.2	25
CHICKASAW CREEK CHANNEL	15.6	24.7	22.4	7-01	250	2.7	25
ARLINGTON CHANNEL	14.7	13.4	11.8	1-02	150	1.4	27
OCEAN TERMINAL TURNING BASIN	12.0	11.1	10.0	1-02	600	0.1	27
THEODORE SHIP CHANNEL:							
BAY CUT	35.2	37.5	37.1	9-01	400	4.5	40
ANCHORAGE AREA	40.0	40.0	39.9	9-01	300	0.2	40
LAND CUT	36.6	38.4	36.6	9-01	300	1.5	40
TURNING BASIN	37.0	38.0	34.8	9-01	1400	0.3	40
BARGE CHANNEL	10.4	11.6	9.0	1-02	100	1.1	12
A. ROCK OBSTRUCTIONS REPORTED FROM LIGHT "20", CONTINUING FOR APPROXIMATELY 600 FEET EASTWARD. MINIMUM DEPTH OVER ROCKS IS 38 FEET.							
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 11377

NM 25/02

MOBILE BAY AND RIVER CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL	41.8	47.0	45.0	3-02	600	7.0	47
MOBILE BAY:							
LOWER REACH (TO LIGHT 50)	40.9	44.8	42.8	2-02	400	11.8	45
UPPER REACH	32.4	40.0	36.9	2-02	400	13.4	40-45
THEODORE SHIP CHANNEL:							
BAY CUT	35.2	37.5	37.1	9-01	400	4.5	40
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 11506

NM 25/02

BRUNSWICK HARBOR CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL							
(ST SIMON RANGE)	31.0	32.0	A30.0	3-02	500	7.7	32
PLANTATION CREEK RANGE	34.0	39.0	39.5	3-02	400	1.8	32
JEKYLL ISLAND RANGE	30.0	35.0	34.0	3-02	400	1.9	30
CEDAR HAMMOCK RANGE	29.5	32.0	30.5	3-02	400	1.4	30
BRUNSWICK PT CUT RANGE	27.5	28.0	27.5	3-02	400	2.4	30
EAST RIVER							
LOWER REACH	B31.0	31.0	29.0	3-02	400	1.1	30
UPPER REACH	27.0	28.0	26.0	3-02	350	1.0	27
EAST RIVER TURNING BASIN	26.5	30.5	30.5	3-02	750	0.2	30
TURTLE RIVER LOWER RANGE	34.0	30.0	29.0	3-02	300	1.7	30
BLYTHE ISLAND RANGE	30.0	26.0	25.0	3-02	300	1.5	30
TURTLE RIVER UPPER RANGE	28.0	28.0	26.0	3-02	300	1.7	30
SOUTH BRUNSWICK RIVER	30.0	31.0	30.0	3-02	400	1.3	30
A. OBSTRUCTION REPORTED WITH A DEPTH OF 29 FEET, LOCATED AT 31°04'06.6"N; 081°16'35.7"W. B. THE EAST RIVER, LOWER REACH WIDENER LEAST DEPTHS WERE 29 FEET, LOCATED 60 FEET INSIDE THE CHANNEL LIMIT, AND 30 FEET, LOCATED 150 FEET INSIDE THE CHANNEL LIMIT FROM THE LEFT SIDE. NOTE - FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 50 FEET INSIDE THE CHANNEL LIMITS. (EXCEPT FOR THE EAST RIVER TURNING BASIN) NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 11545

NM 25/02

MOREHEAD CITY HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BEAUFORT INLET CHANNEL FROM 2000 FT NORTH OF LTD. BUOY "B"	26.7	45.2	45.0	36.0	11-01, 2-02	450-800	2.26	47
CUTOFF CHANNEL	47.5	46.9	47.7	39.1	11-01, 2-02	600	0.38	42
MOREHEAD CITY CHANNEL	39.8	44.5	45.2	39.7	8-01	400	1.10	40
TURNING BASIN								
EAST LEG	40.2	39.4	39.6	38.4	7-01	400-870	0.78	40
WEST LEG	29.6	32.3	38.1	39.1	7-01	800-3000	0.59	35
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11547

NM 25/02

MOREHEAD CITY HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BEAUFORT INLET CHANNEL FROM 2000 FT NORTH OF LTD. BUOY "B"	26.7	45.2	45.0	36.0	11-01, 2-02	450-800	2.26	47
CUTOFF CHANNEL	47.5	46.9	47.7	39.1	11-01, 2-02	600	0.38	42
MOREHEAD CITY CHANNEL	39.8	44.5	45.2	39.7	8-01	400	1.10	40
TURNING BASIN								
EAST LEG	40.2	39.4	39.6	38.4	7-01	400-870	0.78	40
WEST LEG	29.6	32.3	38.1	39.1	7-01	800-3000	0.59	35
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 12347

NM 25/02

HUDSON RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 1999 AND SURVEYS TO DEC 2001							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
KINGSTON POINT REACH	32.0	32.0	29.3	7-98, 6-01	400	2.2	32
BARRYTOWN REACH	32.0	32.0	30.4	8-98, 6-01	400	0.9	32
TIVOLI REACH	30.0	32.0	32.0	8-98, 6-01	400	0.4	32
MALDEN ON HUDSON REACH	31.9	30.4	29.7	6-01	400	0.5	32
NORTH GERMANTOWN REACH	30.5	30.4	28.5	8-98, 12-01	400	2.0	32
NORTH GERMANTOWN REACH TO HUDSON CITY LIGHT	32.0	31.4	27.4	8-98, 12-01	400	8.4	32
HUDSON CITY LIGHT TO HUDSON RIVER LIGHT "140"	26.7	32.0	32.0	10-98, 9-01	400	2.1	32
HUDSON RIVER LIGHT "140" TO FOURMILE POINT (CHART 12348)	27.7	28.8	30.4	10-98, 7-01	400	1.5	32
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 12348

NM 25/02

HUDSON RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 1998 AND SURVEYS TO JAN 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HUDSON RIVER LIGHT "140" (CHART 12347) TO FOURMILE POINT	27.7	28.8	30.4	10-98, 7-01	400	1.5	32
FOURMILE POINT TO 730 YARDS NORTH OF MILL CREEK LIGHT "MC"	28.7	29.8	27.8	8,9,11-01	400	7.0	32
ANCHORAGE AT STUYVESANT	31.2	31.5	29.3	11-01	400	0.4	32
730 YARDS NORTH OF MILL CREEK LIGHT "MC"							
TO ALBANY TURNING BASIN	28.0	31.0	27.1	1-02	400-500	12.1	32
TURNING BASIN AT ALBANY	32.9	30.8	25.1	7-01	600	0.3	32
TURNING BASIN AT ALBANY TO DUNN MEMORIAL BRIDGE	15.9	15.0	13.8	9-98, 7,10-01	300-400	0.9	27-32
(AT LOWEST LOW WATER) DUNN MEMORIAL BRIDGE TO PATROON ISLAND BRIDGE	11.1	14.0	13.8	9-98, 10,11-01	616-400	1.7	14
PATROON ISLAND BRIDGE TO NORTH END OF ADAMS ISLAND	10.2	13.4	6.2	9-98, 5,8,11-01	400-200	5.3	14
THENCE TO TROY LOCK	7.0	13.6	12.0	6-97, 5-01	600-45	0.3	14
CHANNEL EAST OF ADAMS ISLAND	14.0	14.0	8.9	6-98, 5-01	145	0.4	14
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 12377

NM 25/02

CONNECTICUT RIVER CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 1999 AND SURVEYS TO MARCH 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BROCKWAY BAR CHANNEL	10.4	10.9	11.5	3-99	150	0.4	15
POTASH BAR CHANNEL	10.9	11.1	11.1	3-99	150	0.4	15
EDDY ROCK SHOAL CHANNEL	13.2	12.1	12.0	3-99	200-150	0.4	15
WARNERS QUARRY BAR CHANNEL	13.6	12.6	11.9	3-02	200-150	0.5	15
HADDAM ISLAND BAR CHANNEL	15.5	14.5	10.4	3-02	150	0.3	15
ROCK LANDING BAR CHANNEL	10.8	9.0	8.9	3-02	150	0.6	15
HIGGANUM CREEK SHOAL CHANNEL	12.6	11.8	11.3	3-02	150	0.3	15
SCOVILL ROCK BAR CHANNEL	10.3	11.1	11.7	3-02	150	0.4	15
SEARS SHOAL CHANNEL	6.7	10.2	10.9	3-02	150	0.5	15
SEARS UPPER BAR CHANNEL	12.7	12.9	13.5	12-97, 3-02	150	0.5	15
COBALT SHOAL CHANNEL	13.5	14.1	15.0	5-70	150	0.9	15
PAPER ROCK SHOAL CHANNEL	13.9	13.7	13.4	5-86	150	0.5	15
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 14852

NM 25/02

ST. CLAIR RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS AND PUBLIC WORKS CANADA - SURVEYS TO SEP 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
ST. CLAIR CUTOFF	23.3	26.9	25.6	17.7	9-96; 4,5-01	700	5.3	27
SOUTHEAST BEND	27.1	27.1	27.1	27.6	10-94; 6-97; 5-00	700	1.0	27
SOUTHEAST BEND TO RUSSELL I.	21.4	26.9	27.6	26.2A	7-94; 6-97; 5-00	700-1000	4.3	27
RUSSELL I. TO LT BY "37"	22.6B	26.6	27.3	25.9E	8,9-93; 6-97; 5-00	1000	3.6	27
LT BY "37" TO MARINE CITY	24.9	27.3	27.3	25.1	7-94; 9-96	1000	4.3	27
ST. CLAIR TO STAG I.	24.4C	27.3	26.4	24.2	11-93; 5-99; 7,9-01	900-1000	4.3	27
STAG I. TO SARNIA	20.7D	27.4	27.2	25.9	9,10-96; 5,6-99; 7,8,9-01	1000-1400	7.9	27
A. SHOALING TO 18.0 FEET IN OUTSIDE 30 FEET OF QUARTER.								
B. SHOALING TO 20.8 FEET AT 42°38'45.0"N, 82°30'44.0"W.								
C. SHOALING TO 14.5 FEET AT 42°53'45.0"N, 82°28'21.0"W. AND 21.8 FEET AT 42°49'43.3"N, 82°29'00.5"W.								
D. SHOALING TO 14.1 FEET AT 42°58'19.0"N, 82°25'08.5"W. AND 19.8 FEET AT 42°58'17.2"N, 82°25'09.4"W.								
E. SHOALING TO 6.9 FEET IN OUTSIDE 50 FEET OF QUARTER.								
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 14853 (Page 37)

NM 25/02

ST. CLAIR RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS AND PUBLIC WORKS CANADA - SURVEYS TO SEP 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
ST. CLAIR CUTOFF	23.3	26.9	25.6	17.7	9-96; 4,5-01	700	5.3	27
SOUTHEAST BEND	27.1	27.1	27.1	27.6	10-94; 6-97; 5-00	700	1.0	27
SOUTHEAST BEND TO RUSSELL I.	21.4	26.9	27.6	26.2A	7-94; 6-97; 5-00	700-1000	4.3	27
RUSSELL I. TO LT BY "37"	22.6B	26.6	27.3	25.9E	8,9-93; 6-97; 5-00	1000	3.6	27
LT BY "37" TO MARINE CITY	24.9	27.3	27.3	25.1	7-94; 9-96	1000	4.3	27
ST. CLAIR TO STAG I.	24.4C	27.3	26.4	24.2	11-93; 5-99; 7,9-01	900-1000	4.3	27
STAG I. TO SARNIA	20.7D	27.4	27.2	25.9	9,10-96; 5,6-99; 7,8,9-01	1000-1400	7.9	27
A. SHOALING TO 18.0 FEET IN OUTSIDE 30 FEET OF QUARTER.								
B. SHOALING TO 20.8 FEET AT 42°38'45.0"N, 82°30'44.0"W.								
C. SHOALING TO 14.5 FEET AT 42°53'45.0"N, 82°28'21.0"W. AND 21.8 FEET AT 42°49'43.3"N, 82°29'00.5"W.								
D. SHOALING TO 14.1 FEET AT 42°58'19.0"N, 82°25'08.5"W. AND 19.8 FEET AT 42°58'17.2"N, 82°25'09.4"W.								
E. SHOALING TO 6.9 FEET IN OUTSIDE 50 FEET OF QUARTER.								
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

SECTION I

NM 25/02

Chart 18502

NM 25/02

GRAYS HARBOR TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 1999 AND SURVEYS TO JAN 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	44.7	45.0	46.3	6-95;9-96;6-00;2-01	1000	4.6	46
ENTRANCE RANGE	33.1	37.3	33.7	4-00;6-00;2-9-01	900-600	1.8	42
PT CHEHALIS REACH	33.7	38.3	37.4	9-01	600	1.2	40
SOUTH REACH	33.7	38.2	33.2	2-01;1-02	600-350	4.1	36
CROSSOVER CHANNEL	32.2	36.4	33.0	1-02	350-450	2.5	36
NORTH CHANNEL	36.7	37.5	37.4	1-02	450-350	2.4	36
HOQUIAM REACH	32.7	37.2	35.6	1-02	350	1.9	36
COW POINT REACH	26.9	33.9	31.2	1-6-01	350-900	1.8	36
ABERDEEN REACH	22.1	26.3	25.0	5-97;4-98;6-99;6-01	550-200	2.6	30
TURNING BASIN	31.1	33.0	24.7	6-01	200-550	.3	30
THENCE TO COSMOPOLIS	26.9	27.6	27.8	5-97;6-99	200	.8	30
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 18521

NM 25/02

COLUMBIA RIVER CHANNEL DEPTHS ENTRANCE TO MILLER SANDS RANGE TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002								
* SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH * (MILES)	DEPTH * (FEET)
ENTRANCE RANGE	55	56	51	43	3-02	2640	3.3	48
SAND ISLAND RANGE (CLATSOP SPIT)	50	53	50	44	3-02	2640	2.2	48
LOWER DESDEMONA SHOAL	46	37	27	15	3,4-02	600	3.4	40
UPPER DESDEMONA SHOAL	43	45	46	47	4-02	600	3.7	40
TANSY POINT TURN AND RANGE	40	41	41	41	4-02	600	4.7	40
ASTORIA RANGE	41	41	43	43	4-02	600	2.7	40
TONGUE POINT CHANNEL	40	42	42	41	4-02	600	2.2	40
HARRINGTON POINT RANGE	40	42	39	36	4-02	600	2.6	40
MILLER SANDS RANGE	41	42	38	37	4-02	600	2.2	40
* CONTROLLING DEPTHS IN CHANNELS ENTERING FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER FROM THE ENTRANCE TO HARRINGTON POINT AND COLUMBIA RIVER DATUM ABOVE THAT POINT. PROJECT LENGTHS ARE IN STATUTE MILES. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

SECTION I

NM 25/02

Chart 18523

NM 25/02

COLUMBIA RIVER CHANNEL DEPTHS MILLER SANDS RANGE TO GULL ISLAND TURN AND CHANNEL TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
MILLER SANDS RANGE	41	42	38	37	4-02	600	2.2	40
PILLAR ROCK LOWER RANGE	39	41	41	42	11-01	600	3.0	40
PILLAR ROCK UPPER RANGE	40	44	43	41	10,11-01	600	1.9	40
WELCH ISLAND REACH	40	43	40	44	10-01	600	3.2	40
SKAMOKAWA CHANNEL	38	42	42	40	11-01	600	3.3	40
STEAMBOAT REACH	49	47	45	42	10,11-01	600	1.4	40
PUGET ISLAND RANGE AND TURN	43	43	42	41	11-01	600	3.5	40
WAUNA RANGE	41	41	42	43	11-01	600	2.2	40
DRISCOLL RANGE	41	40	42	42	11-01	600	1.7	40
WESTPORT TURN AND RANGE	41	42	42	41	11-01	600	2.0	40
WESTPORT CHANNEL	40	42	41	40	11-01	600	2.4	40
EUREKA LOWER CHANNEL	47	44	44	43	11-01	600	2.1	40
EUREKA UPPER CHANNEL	44	45	43	43	11-01	600	0.8	40
OAK POINT CHANNEL	48	47	48	47	11-01	600	2.4	40
GULL I TURN AND CHANNEL	44	48	42	41	11-01	600	2.2	40
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 18587

NM 25/02

COOS BAY AND ISTHMUS SLOUGH CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE RANGE	39	40	40	10-01;3-02	—	1.9	47-37
ENTRANCE RANGE AND TURN	37	45	29	2-02	300-1050	0.5	37
INSIDE RANGE	37	38	38	2-02	300	0.6	37
COOS BAY RANGE	35	38	37	2-02	300	1.6	37
EMPIRE RANGE	37	37	38	2-02	300	1.3	37
LOWER JARVIS RANGE	37	36	36	2-02	300	0.8	37
JARVIS TURN	36	37	36	2-02	300	0.5	37
UPPER JARVIS RANGE	34	35	35	2-02	300	1.9	37
NORTH BEND LOWER RANGE	37	38	35	2-02	400	0.4	37
NORTH BEND RANGE	35	37	35	2-02	400	0.9	37
NORTH BEND UPPER RANGE	35	38	37	2-02	400	0.6	37
LOWER TURNING BASIN	34	38	36	2-02	400-800	0.3	37
FERNDAL E LOWER RANGE	36	39	38	2-02	400	0.4	37
FERNDAL E TURN	29	39	37	2-02	400	0.2	37
FERNDAL E UPPER RANGE	27	37	37	2-02	400	0.7	37
MARSHFIELD RANGE	36	37	34	2-02	400	0.4	37
MARSHFIELD RANGE TO ISTHMUS SLOUGH	34	34	32	2-02	150-750	0.9	37
ISTHMUS SLOUGH	19	20	19	4-85	150	2.0	22
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 18685

NM 25/02

MOSS LANDING HARBOR TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL	10.2	9.1	8.3	2-02	200	0.3	15
TURNING BASIN	12.5	12.4	9.1	2-02	300	0.1	15
INNER CHANNEL	13.9	13.5	11.1	2-02	100	0.4	15
INNER TURNING BASIN	12.3	12.5	9.8	2-02	100-120	0.1	15
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 75191

NM 25/02

DATUM NOTE

Adjustments for plotting positions obtained from satellite navigation systems based on the World Geodetic System (WGS) cannot be determined for this chart.